PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner for Patents, Washington, DC 20231.

July 10, 2001
Date

Linda Povinelli

#22

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | |
|---|---|---|
| Applicants | : | B. Brett Finlay *et al.* |
| Application No. | : | 09/189,415 |
| Filed | : | November 10, 1998 |
| For | : | HOST RECEPTOR FOR PATHOGENIC BACTERIA |

| | | |
|---|---|---|
| Examiner | : | S. Devi |
| Art Unit | : | 1645 |
| Docket No. | : | 482112.402 |
| Date | : | July 10, 2001 |



Commissioner for Patents
Washington, DC 20231

RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Commissioner for Patents:

In response to the Notice to Comply With Requirements For Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures mailed June 27, 2001, Applicants submit the following:

(1) Declaration regarding Sequence Listing;

(2) Paper copy of Sequence Listing (11 pages);

(3) Computer Readable Form of Sequence Listing; and

(4) Copy of Notice to Comply.

The enclosed Sequence Listing includes no new material and complies with the requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures. Applicants respectfully submit that this application is now in compliance with 37 C.F.R. §§ 1.821-1.825 and WIPO Standard 25.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC

Jeffrey C. Pepe, Ph.D.
Registration No. 46,985

Phone: (206) 622-4900
Fax: (206) 682-6031

JCP:lmp 193943

$ DAC
BOX ISEQ

PTO/SB/21 (08-00)

Please type a plus sign (+) inside this box → [+]

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

*(To be used for all correspondence after initial filing)*

| | |
|---|---|
| Application Number | 09/189,415 |
| Filing Date | November 10, 1998 |
| First Named Inventor | B. Brett Finlay |
| Group Art Unit | 1645 |
| Examiner Name | S. Devi |
| Attorney Docket No. | 482112.402 |

**ENCLOSURES (*check all that apply*)**

- [X] Fee Transmittal Form
  - [X] Fee Attached
- [ ] Amendment/Response
  - [ ] After Final
  - [ ] Affidavits/declaration(s)
- [ ] Extension of Time Request
- [ ] Express Abandonment Request
- [ ] Information Disclosure Statement; Form PTO-1449
- [ ] Cited References
- [ ] Certified Copy of Priority Document(s)
- [ ] Response to Missing Parts under 37 C.F.R. 1.52 or 1.53
- [ ] Response to Missing Parts/Incomplete Application
- [ ] Assignment Papers *(for an Application)*
- [ ] Drawing(s)
- [ ] Request for Corrected Filing Receipt
- [ ] Licensing-related Papers
- [X] Petition **TO REVIVE**
- [ ] Petition to Convert to a Provisional Application
- [ ] Power of Attorney, Revocation, Change of Correspondence Address
- [X] Declaration **re: Sequence Listing**
- [ ] Statement under 37 CFR 3.73(b)
- [ ] Terminal Disclaimer
- [ ] Small Entity Statement
- [ ] Request for Refund
- [ ] CD(s), Number of CD(s) _____
- [ ] After Allowance Communication to Group
- [ ] Appeal Communication to Board of Appeals and Interferences
- [ ] Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- [ ] Proprietary Information
- [ ] Status Letter
- [X] Return Receipt Postcard
- [X] Additional Enclosure(s) *(please identify below)*:

Response to Notice to Comply;
Paper Copy of Sequence Listing;
CRF of Sequence Listing (11 pages); and
Copy of Notice to Comply with Sequence Requirements

Remarks

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

| | | |
|---|---|---|
| Individual Name | Jeffrey C. Pepe, Ph.D. | 00500 PATENT TRADEMARK OFFICE |
| Signature | | |
| Date | 7/10/01 | |

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date specified below.

| | | |
|---|---|---|
| Typed or printed name | Linda M. Povinelli | |
| Signature | | Date: 7/10/01 |

193937 [12/19/00]

RECEIVED
JUL 17 2001
OFFICE OF PETITIONS

PTO/SB/17 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032

# FEE TRANSMITTAL for FY 2001

*Patent fees are subject to annual revision.*

| TOTAL AMOUNT OF PAYMENT | ($) | 620.00 |
|---|---|---|

| *Complete if Known* | |
|---|---|
| Application Number | 09/189,415 |
| Filing Date | November 10, 1998 |
| First Named Inventor | B. Brett Finlay |
| Examiner Name | S. Devi |
| Group Art Unit | 1645 |
| Attorney Docket No. | 482112.402 |

## METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number: 19-1090

Deposit Account Name: Seed Intellectual Property Law Group PLLC

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 and credit any overpayment to Deposit Account Number above.

☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description | Fee Paid |
|---|---|---|---|---|---|
| 101 | 710 | 201 | 355 | Utility filing fee | |
| 106 | 320 | 206 | 160 | Design filing fee | |
| 107 | 490 | 207 | 245 | Plant filing fee | |
| 108 | 710 | 208 | 355 | Reissue filing fee | |
| 114 | 150 | 214 | 75 | Provisional filing fee | |
| | | | | SUBTOTAL (1) | ($) |

### 2. EXTRA CLAIM FEES

| | | | Extra Claims | | Fee from below | | Fee Paid |
|---|---|---|---|---|---|---|---|
| Total Claims | | -** = | | X | | = | |
| Independent Claims | | -** = | | X | | = | |
| Multiple Dependent | | | | X | | = | |

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description |
|---|---|---|---|---|
| 103 | 18 | 203 | 9 | Claims in excess of 20 |
| 102 | 80 | 202 | 40 | Independent claims in excess of 3 |
| 104 | 270 | 204 | 135 | Multiple dependent claim, if not paid |
| 109 | 80 | 209 | 40 | ** *Reissue independent claims over original patent* |
| 110 | 18 | 210 | 9 | ** *Reissue claims in excess of 20 and over original patent* |

SUBTOTAL (2) ($)

**or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

| Large Entity Fee Code | Large Entity Fee ($) | Small Entity Fee Code | Small Entity Fee ($) | Fee Description | Fee Paid |
|---|---|---|---|---|---|
| 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | |
| 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet. | |
| 139 | 130 | 139 | 130 | Non-English specification | |
| 147 | 2,520 | 147 | 2,520 | For filing a request for *ex parte* reexamination | |
| 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | |
| 115 | 110 | 215 | 55 | Extension for reply within first month | |
| 116 | 390 | 216 | 195 | Extension for reply within second month | |
| 117 | 890 | 217 | 445 | Extension for reply within third month | |
| 118 | 1,390 | 218 | 695 | Extension for reply within fourth month | |
| 128 | 1,890 | 228 | 945 | Extension for reply within fifth month | |
| 119 | 310 | 219 | 155 | Notice of Appeal | |
| 120 | 310 | 220 | 155 | Filing a brief in support of an appeal | |
| 121 | 270 | 221 | 135 | Request for oral hearing | |
| 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | |
| 140 | 110 | 240 | 55 | Petition to revive – unavoidable | |
| 141 | 1,240 | 241 | 620 | Petition to revive – unintentional | 620 |
| 142 | 1,240 | 242 | 620 | Utility issue fee (or reissue) | |
| 143 | 440 | 243 | 220 | Design issue fee | |
| 144 | 600 | 244 | 300 | Plant issue fee | |
| 122 | 130 | 122 | 130 | Petitions to the Commissioner | |
| 123 | 130 | 123 | 130 | Petitions related to provisional applications | |
| 126 | 180 | 126 | 180 | Submission of Information Disclosure Stmt | |
| 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | |
| 146 | 710 | 246 | 355 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 149 | 710 | 249 | 355 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 179 | 710 | 279 | 355 | Request for Continued Examination (RCE) | |
| 169 | 900 | 169 | 900 | Request for expedited examination of a design application | |
| Other fee (specify) ____ | | | | | |

*Reduced by Basic Filing Fee Paid SUBTOTAL (3) ($) 620

## SUBMITTED BY

| Name (Print/Type) | Jeffrey C. Pepe | Registration No. Attorney/Agent | 46,985 |
|---|---|---|---|
| Firm Name/ Address | | | |
| Signature | | Date | 7/10/01 |

00500
PATENT TRADEMARK OFFICE

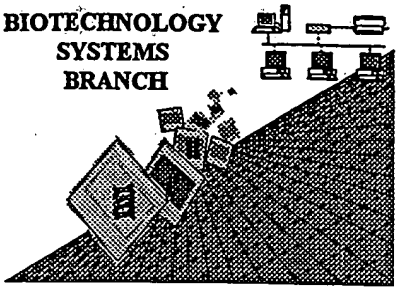
168585

V. Ryan



# RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY SYSTEMS BRANCH



**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:**



Application Serial Number: 09/189,415

Art Unit / Team No. : 1641

Date Processed by STIC: 3/10/2000

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

MARK SPENCER 703-308-4212

Application No.: 09/189,415

# NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- [ ] 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- [ ] 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- [ ] 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- [X] 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- [ ] 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- [ ] 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- [ ] 7. Other: _____

**Applicant Must Provide:**

- [X] An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- [X] An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- [X] A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
PatentIn Software Program Support (SIRA)
Technical Assistance.....703-287-0200
To Purchase PatentIn Software.....703-306-2600



**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

# Raw Sequence Listing Error Summary

**ERROR DETECTED** **SUGGESTED CORRECTION** **SERIAL NUMBER:** 09/189,415

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 _____ Variable Length
Sequence(s) ____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.

7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence.

8 _____ Skipped Sequences (OLD RULES)
Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence:
**(2) INFORMATION FOR SEQ ID NO:X:**
**(i) SEQUENCE CHARACTERISTICS:**(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
**(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:**
**This sequence is intentionally skipped**

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 _____ Skipped Sequences (NEW RULES)
Sequence(s) ____ missing. If intentional, please use the following format for each skipped sequence.
**<210> sequence id number**
**<400> sequence id number**
**000**

10 J Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa repre

11 _____ Use of <213>Organism (NEW RULES)
Sequence(s) _____ are missing this mandatory field or its response.

12 _____ Use of <220>Feature (NEW RULES)
Sequence(s) ____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
**Please explain source of genetic material in <220> to <223> section.**
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

13 _____ PatentIn ver. 2.0 "bug"
**Please do not use "Copy to Disk" function of PatentIn version 2.0.** This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

AKS-Biotechnology Systems Branch- 5/15/99

J. Ryan

1641



RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415

DATE: 03/10/2000
TIME: 15:42:36

Input Set: I189415.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

p. 2



<110> APPLICANT: Finlay, Brett B
Kenny, Brendan
DeVinney, Rebekah
Stein, Markus
<120> TITLE OF INVENTION: HOST RECEPTOR FOR PATHOGENIC BACTERIA
<130> FILE REFERENCE: 07422/013001
<140> CURRENT APPLICATION NUMBER: US/09/189,415
<141> CURRENT FILING DATE: 1998-11-10
<150> EARLIER APPLICATION NUMBER: 60/065,130
<151> EARLIER FILING DATE: 1997-11-12
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cctgcgccgc cactaccttc acaaacagac ggcgcggcac ggggaggaac tggtcatcta 180
attagctcta caggagcatt aggatctcgt tcattgtttt ctcccctgag aaattctatg 240
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gcagctacat ctgagacatg cttgcttgga ggatttgaag ttctccatga taaggggcca 360
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cgtacgaaaa tactggccaa attagaccca gacaatcatg gaggacgtca acccaaggac 660
gttgatacgc gttctgttgg tgttggcagc gcttcgggaa tagatgatgg cgttgttagc 720
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gaaagcaatg cacaggcgca gcagcgatat gaggatcagc atgccagacg tcaggaggaa 1140
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attggtgctg gtgtaacgac tgcgctccat agacgaaatc agccggcaga acagacaact 1260
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ttaataggaa ctccagggca aggtatccaa agtacttatg cgcttctggc aaacagcggc 1620

ggattgcgtt taggtatggg aggattaacg agtggtggcg agacggcagt aagttctgta 1680
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gcagcatggg taactcttga acttctgtta ttataatcaa ttaagagaaa ttataatgtc 1860
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<210> SEQ ID NO 2
<211> LENGTH: 549
<212> TYPE: PRT
<213> ORGANISM: Escherichia coli
<400> SEQUENCE: 2

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20 25 30
Gly Thr Gly His Leu Ile Ser Ser Thr Gly Ala Leu Gly Ser Arg Ser
35 40 45
Leu Phe Ser Pro Leu Arg Asn Ser Met Ala Asp Ser Val Asp Ser Arg
50 55 60
Asp Ile Pro Gly Leu Pro Thr Asn Pro Ser Arg Leu Ala Ala Ala Thr
65 70 75 80
Ser Glu Thr Cys Leu Leu Gly Gly Phe Glu Val Leu His Asp Lys Gly
85 90 95
Pro Leu Asp Ile Leu Asn Thr Gln Ile Gly Pro Ser Ala Phe Arg Val
100 105 110
Glu Val Gln Ala Asp Gly Thr His Ala Ala Ile Gly Glu Lys Asn Gly
115 120 125
Leu Glu Val Ser Val Thr Leu Ser Pro Gln Glu Trp Ser Ser Leu Gln
130 135 140
Ser Ile Asp Thr Glu Gly Lys Asn Arg Phe Val Phe Thr Gly Gly Arg
145 150 155 160
Gly Gly Ser Gly His Pro Met Val Thr Val Ala Ser Asp Ile Ala Glu
165 170 175
Ala Arg Thr Arg Ile Leu Ala Lys Leu Asp Pro Asp Asn His Gly Gly
180 185 190
Arg Gln Pro Lys Asp Val Asp Thr Arg Ser Val Gly Val Gly Ser Ala
195 200 205
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225 230 235 240
Ile Ala Ala Gly Leu Ala Gly Leu Ala Ala Thr Gly Ile Ala Gln Ala
245 250 255
Leu Ala Leu Thr Pro Glu Pro Asp Asp Pro Thr Thr Thr Asp Pro Asp
260 265 270
Gln Ala Ala Asn Ala Ala Glu Ser Ala Thr Lys Asp Gln Leu Thr Gln
275 280 285
Glu Ala Phe Lys Asn Pro Glu Asn Gln Lys Val Asn Ile Asp Ala Asn
290 295 300
W--> **Gly Asn Ala Ile Pro Ser Gly Glu Leu Xaa Asp Asp Ile Val Glu Gln**
305 310 315 320

All item 10 on Error Summary Sheet

Ile Ala Gln Gln Ala Lys Glu Ala Gly Glu Val Ala Arg Gln Gln Ala
325 330 335
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340 345 350
Arg Arg Gln Glu Glu Leu Gln Leu Ser Ser Gly Ile Gly Tyr Gly Leu
355 360 365
Ser Ser Ala Leu Ile Val Ala Gly Gly Ile Gly Ala Gly Val Thr Thr
370 375 380
Ala Leu His Arg Arg Asn Gln Pro Ala Glu Gln Thr Thr Thr Thr Thr
385 390 395 400
Thr His Thr Val Val Gln Gln Gln Thr Gly Gly Ile Pro Gln His Lys
405 410 415
Val Ala Leu Met Pro Gln Glu Arg Arg Arg Phe Ser Asp Arg Arg Asp
420 425 430
Ser Gln Gly Ser Val Ala Ser Thr His Trp Ser Asp Ser Ser Ser Glu
435 440 445
Val Val Asn Pro Tyr Ala Glu Val Gly Gly Ala Arg Asn Ser Leu Ser
450 455 460
Ala His Gln Pro Glu Glu His Ile Tyr Asp Glu Val Ala Ala Asp Pro
465 470 475 480
Gly Tyr Ser Val Ile Gln Asn Phe Ser Gly Ser Gly Pro Val Thr Gly
485 490 495
Arg Leu Ile Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
500 505 510
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<210> SEQ ID NO 3
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<213> ORGANISM: Escherichia coli
<400> SEQUENCE: 3

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ccgttgggat ctcgtgcgct atttacgcct gtaaggaatt ctatggctga ttctggcgac 180
aatcgtgcca gtgatgttcc tggacttcct gtaaatccga tgcgcctggc ggcgtctgag 240
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aggcagattg gctcttcggt atttcgagtt gaaactcagg aagatggtaa acatattgct 360
gtcggtcaga ggaatggtgt tgagacctct gttgttttaa gtgatcaaga gtacgctcgc 420
ttgcagtcca ttgatcctga aggtaaagac aaatttgtat ttactggagg ccgtggtggt 480
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gagctgttag agcccaaagg gaccggggag tccaaaggtg ctggggagtc aaaaggcgtt 600
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tcaacttcca gccttcgttc agatcctaaa ctttggttgg cgttggggac tgttgctaca 720
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Gly Gln Leu Ile Asn Ser Thr Gly Pro Leu Gly Ser Arg Ala Leu Phe
35 40 45
Thr Pro Val Arg Asn Ser Met Ala Asp Ser Gly Asp Asn Arg Ala Ser
50 55 60
Asp Val Pro Gly Leu Pro Val Asn Pro Met Arg Leu Ala Ala Ser Glu
65 70 75 80
Ile Thr Leu Asn Asp Gly Phe Glu Val Leu His Asp His Gly Pro Leu
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Asp Thr Leu Asn Arg Gln Ile Gly Ser Ser Val Phe Arg Val Glu Thr
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Gln Glu Asp Gly Lys His Ile Ala Val Gly Gln Arg Asn Gly Val Glu
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130 135 140
Asp Pro Glu Gly Lys Asp Lys Phe Val Phe Thr Gly Gly Arg Gly Gly
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Ala Gly His Ala Met Val Thr Val Ala Ser Asp Ile Thr Glu Ala Arg
165 170 175
Gln Arg Ile Leu Glu Leu Leu Glu Pro Lys Gly Thr Gly Glu Ser Lys
180 185 190
Gly Ala Gly Glu Ser Lys Gly Val Gly Glu Leu Arg Glu Ser Asn Ser
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Gly Ala Glu Asn Thr Thr Glu Thr Gln Thr Ser Thr Ser Thr Ser Ser
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200         Gln Asn Pro Asp Asn Gln Lys Val Asn Ile Asp Glu Leu Gly Asn Ala
201             290                 295                 300
202         Ile Pro Ser Gly Val Leu Lys Asp Asp Val Val Ala Asn Ile Glu Glu
203         305                 310                 315                 320
204         Gln Ala Lys Ala Ala Gly Glu Glu Ala Lys Gln Gln Ala Ile Glu Asn
205                     325                 330                 335
206         Asn Ala Gln Ala Gln Lys Lys Tyr Asp Glu Gln Gln Ala Lys Arg Gln
207                     340                 345                 350
208         Glu Glu Leu Lys Val Ser Ser Gly Ala Gly Tyr Gly Leu Ser Gly Ala
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218         Ser Arg Arg Ser Ser Met Ala Ser Thr Ser Ser Thr Phe Phe Asp Thr
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225                     485                 490                 495
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227                     500                 505                 510
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**VERIFICATION SUMMARY**
PATENT APPLICATION **US/09/189,415**

DATE: 03/10/2000
TIME: 15:42:36

Input Set: **I189415.RAW**

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